

Appln. No. : 09/800,330
Applicant : Dames, *et al.*
Filed : March 6, 2001
TC/A.U. : 2178
Examiner : Nguyen, Dang T.

Confirmation No. 2967

Docket No. : 6169-143
IBM Docket No. : BOC9-1999-0090

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22203-1450

Sir:

I, Dwayne Dames, a citizen of the Bahamas, residing at 1160 Rialto Drive, Boynton Beach, FL 33436, hereby declare and state as follows:

1. I was employed by International Business Machines Corporation (IBM) of Boca Raton, Florida at the time the above-identified application was conceived and I continue to be employed by IBM. I make this declaration in support the above-identified application.

2. IBM has invested substantial time and effort into the research, development, and marketing of their products, and in an effort to protect its rights in all new inventions, IBM requests that all employees prepare and submit IBM Confidential Invention Disclosure Forms upon conception by the inventor(s).

3. As a named co-inventor for this invention, I and my co-inventors submitted the attached IBM Confidential Invention Disclosure BOC8-1999-0119.

4. I make this Declaration to establish that I and my co-inventors David E. Reich and Fang Wang conceived of the present invention at least as early as November 11, 1999, and exercised due diligence from prior to November 11, 1999 to March 6, 2001, the filing date for the above-identified patent application.

5. I further declare that all statements made herein of my own knowledge are true and all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the above-identified patent application or any patent issuing thereon.



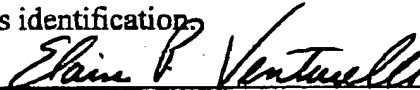
Dwayne Dames

Date: 8/17/04

STATE OF FLORIDA)
) ss:
COUNTY OF PALM BEACH)

The foregoing instrument was sworn to and subscribed before me this 17 day of AUGUST, 2004, by DWAYNE DAMES, who is personally known to me or who has produced

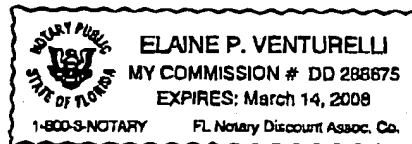
_____ (type of identification) as identification

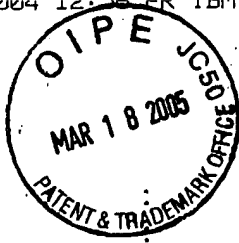


NOTARY PUBLIC,
STATE OF FLORIDA



(Print, Type or Stamp Commissioned Name of Notary Public)





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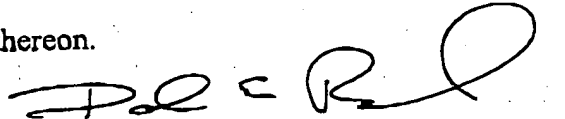
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David E. Reich

Date: 8-16-2004

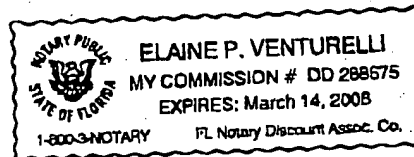
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) ss:
COUNTY OF PALM BEACH)

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NOTARY PUBLIC,
STATE OF FLORIDA

ELAINE P. VENTURELLI
(Print, Type or Stamp Commissioned Name of Notary Public)





Disclosure BOC8-1999-0119

Created By: David Reich Created On: 11/11/99 04:48:27 PM

Last Modified By: David Reich Last Modified On: 11/29/99 02:43:44 PM

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Required fields are marked with the asterisk (*) and must be filled in to complete the form.

Summary

Status	Under Evaluation
Processing Location	BOC
Functional Area	Speech Development & Customization (O. Osborne)
Attorney/Patent Professional	Richard Tomlin/Boca Raton/IBM
IDT Team	Harvey Ruback/West Palm Beach/IBM
Submitted Date	11/22/99 03:48:03 PM
Owning Division	SWG Add/Change
PVT Score	To calculate a PVT score, use the 'Calculate PVT' button.
Lab	
Technology Code	
Incentive Program	

Inventors with Lotus Notes IDs

Inventors: David Reich/West Palm Beach/IBM, Dwayne Dames/West Palm Beach/IBM, Kevin Tan/West Palm Beach/IBM, Fang Wang/West Palm Beach/IBM, Lenora Wright/West Palm Beach/IBM

Inventor Name > denotes primary contact	Inventor Serial	Div/Dept	Manager Serial	Manager Name
Reich, David E.				
Dames, Dwayne				
Tan, Ji Whee (Kevin)				
Wang, Fang				
Wright, Lenora E.				

Inventors without Lotus Notes IDs

IDT Selection

IDT Team: Harvey Ruback/West Palm Beach/IBM	Attorney/Patent Professional: Richard Tomlin/Boca Raton/IBM
--	--

Response Due to IP&L : 12/29/99

Main Idea

*Title of disclosure (in English)

Method and Apparatus to parse generic HTML data for voice presentation and user interaction

*Idea of disclosure

1. Describe your invention, stating the problem solved (if appropriate), and indicating the advantages of using the invention.

The invention described by this disclosure provides a reusable and adaptable algorithm for extracting HTML data from arbitrary web pages for presentation in a different medium. Today, many projects are

looking at transcoding as a method of converting one markup to another. The problem with this is that transcoding is a simple tag substitution. This does not take the actual user interface into consideration. HTML is visually oriented data, and simply transcoding the tags into say VoiceXML for speech presentation does not effectively present the data in a speech medium. Even with some "smarts" in a transcoder to do some intelligent presentation tag generation for the target markup, there is no good way to change an HTML table, for example, into a speech interface. The user interaction would need to be tailored for the interface. A better presentation is to have the same data with a voice interface designed around it, so the interface is tailored for the medium, and for example, one would not try to transcode a table of data and then ask the developer, "how do I read a table?"

The problem in doing this is that web pages are all different, and data is not in any standard place in the HTML file. Transcoding keeps the data within tags, and requires the transcoder to transcode the context of the data to different user interfaces which is an inferior solution or ultimately forces the developer to migrate one user interface to another. This solution addresses the issue of parsing the pages from many varied sources to grab just the data, and then put well designed voice (or other) markup around it.

The advantages are:

- 1) Presentation markup geared directly toward the presentation medium rather than translated/transcoded tags.
- 2) As new HTML page layouts are learned, they are just added to the page templates described below.
- 3) The field extraction code is generic to pull specific data from their places based on table lookup rather than the forcing program logic to know where the fields are.

2. How does the invention solve the problem or achieve an advantage, (a description of "the invention", including figures inline as appropriate)?

The solution uses a table lookup mechanism that has contained within it, the structure of the web pages being referenced. For example, the Yahoo movie pages have the theater name at byte offset 57 for 35 bytes, and repeating fields for the movies playing at by 235 for 600 bytes (for example). So rather than parsing the page to "flip" one set of tags to another and keep the data in place in a cobbled together user interface, there would be a table lookup for the page layout (like a Lotus NOTES template) and the data can be extracted and placed into Voice (or other) oriented markup specific to the application.

The advantage is that it is adaptable to any web page anywhere and if the format of pages change, it is a trivial matter to update the templates.

These templates can potentially be sold or licensed, and another large advantage (to ubiquitous access to web-oriented data) is the ability to use public sources of data without having to recreate or redesign backend data source interfaces.

3. If the same advantage or problem has been identified by others (inside/outside IBM), how have those others solved it and does your solution differ and why is it better?

The advantages are described above. Transcoding creates poor presentation because of the difference of the interface orientation of the different mediums (i.e. text/visual vs speech/audio)

4. If the invention is implemented in a product or prototype, include technical details, purpose, disclosure details to others and the date of that implementation.

The programming is underway for a prototype for this for internal demonstration only, and even for external (to IBM) demonstration, the details of the solution do not have to be divulged.

*Critical Questions (Questions 1 - 7 must be answered)

***Question 1**

On what date was the invention workable? 11/22/99 Please format the date as MM/DD/YYYY
(Workable means i.e. when you know that your design will solve the problem)

***Question 2**

Is there any planned or actual publication or disclosure of your invention to anyone outside IBM?

☐ Yes
☒ No

If yes, Enter the name of each publication or patent and the date published below.

Publication/Patent:

Date Published or Issued:

Are you aware of any publications, products or patents that relate to this invention?

☐ Yes
☒ No

If yes, Enter the name of each publication or patent and the date published below.

Publication/Patent:

Date Published or Issued:

***Question 3**

Has the subject matter of the invention or a product incorporating the invention been sold, used internally in manufacturing, announced for sale, or included in a proposal?

☒ Yes
☐ No

Is a sale, use in manufacturing, product announcement, or proposal planned?

☐ Yes
☒ No

If Yes, identify the product if known and indicate the date or planned date of sale, announcements, or proposal and to whom the sale, announcement or proposal has been or will be made.

Product: VoiceXML (e-Voice) pilot program

Version/Release: N/A

Code Name: N/A

Date: N/A

To Whom: N/A

If more than one, use cut and paste and append as necessary in the field provided.

***Question 4**

Was the subject matter of your invention or a product incorporating your invention used in public, e.g., outside IBM or in the presence of non-IBMers?

☐ Yes
☒ No

If yes, give a date. Please format the date as MM/DD/YYYY

***Question 5**

Have you ever discussed your invention with others not employed at IBM?

☐ Yes
☒ No

If yes, identify individuals and date discussed. Fill in the text area with the following information, the names of the individuals, the employer, date discussed, under CDA, and CDA #.

***Question 6**

Was the invention, in any way, started or developed under a government contract or project?

☐ Yes
☒ No
☐ Not sure

If Yes, enter the contract number

***Question 7**

Was the invention made in the course of any alliance, joint development or other contract activities?

☐ Yes
☒ No
☐ Not Sure

If Yes, enter the following :Name of Alliance, Contractor or Joint Developer

Contract ID number

Relationship contact name

Relationship contact E-mail

Relationship contact phone

Question 8

Have you submitted, or are you aware of, any related disclosure submission?

☐ Yes
☒ No

If Yes, please provide the title and docket or disclosure number below:

Question 9

What type of companies do you expect to compete with inventions of this type? *Check all that apply.*

- ☐ Manufacturers of enterprise servers
- ☐ Manufacturers of entry servers
- ☐ Manufacturers of workstations
- ☐ Manufacturers of PC's
- ☐ Non-computer manufacturers
- ☒ Developers of operating systems
- ☒ Developers of networking software
- ☒ Developers of application software
- ☒ Integrated solution providers
- ☒ Service providers
- ☐ Other (Please specify below)

Patent Value Tool (Optional - this may be used by the inventor and attorney to assist with the evaluation of the
Post Disclosure Text & Drawings)

(Form Revised 12/17/97)

CONFIRMATION REPORT - MEMORY SEND

Time : FEB-17-05 13:52
Fax number: 5616596313
Name : AKERMAN, SENTERFITT & EIDSON

Job : 923
Date : FEB-17 13:48
To : 7110966615712734133
Doc. pages : 09
Start time : FEB-17 13:48
End time : FEB-17 13:52
Pages sent : 09
Job:923 *** SEND SUCCESSFUL ***

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Akerman Senterfitt
ATTORNEYS AT LAW
222 Lakeview Avenue
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West Palm Beach, Florida 33401-6147
Post Office Box 3188 mail
West Palm Beach, Florida 33402-3188
www.akerman.com
561 653 5000 tel 561 659 6313 fax

FAX COVER SHEET

From: Brian Buchheit

Date: February 17, 2005

PLEASE DELIVER 9 PAGE(S) (including cover sheet) TO:

Name: Examiner Joshua D. Campbell
Company: USPTO

Fax Number: 571-273-4133
Phone Number:

Please call (561) 653-5000, ext. 3434 if you do not receive all the pages.

Comments/Special Instructions

Application No. : 09/800,330 Confirmation No. : 2967
Applicant : Dames, et al.
Filed : March 6, 2001
TC/A.U. : 2178
Examiner : Campbell, Joshua D.
Docket No. : 6169-143
IBM Docket No. : BOC9-1999-0090

URGENT

Pursuant to our telephone conversation, attached are the Declarations and Confidential Invention Disclosure that were filed with the previous response to office action of September 14, 2004. Please advise if you require any further information.

The information contained in this transmission may be a confidential attorney-client communication or may otherwise be privileged and confidential, intended only for the use of the individual or entity named above. If the reader of this transmittal is not the intended recipient or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original transmittal to us by mail. Thank you.

Client/Matter No: 102666 Equitrac ID: 1647
(WP220863:1)

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Fort Lauderdale
Jacksonville
Miami
Orlando
Tallahassee
Tampa
West Palm Beach



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West Palm Beach, Florida 33401-6147
Post Office Box 3188 *mail*
West Palm Beach, Florida 33402-3188
www.akerman.com
561 653 5000 *tel* 561 659 6313 *fax*

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Client/Matter No: 109666

Equitrac ID: 1647

Application No.	09/800,330	Confirmation No.	2967
Applicant	Damits, et al.		
Filed	March 6, 2001		
TC/A.U.	2178		
Examiner	NGUYEN, DANG T		
Docket No.	6169-143		
IBM Docket No.	BOC9-1999-0090		

TRANSMITTAL LETTER

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please find enclosed for filing:

1. Response to Office Action with attachments;
2. ~~Response to Office Action with attachments;~~
3. Confidential Information Disclosure BOC9-1999-0119 submitted in attached envelope in confidence, under 35 U.S.C. 122, and
4. Please charge any deficiencies or credit any overpayment to Deposit Account No. 50-0931.

This Transmittal Letter is submitted in duplicate.

Respectfully submitted,

Date

14 Sep 2001

Gregory A. Nelson, Registration No. 30,577
Richard A. Hinson, Registration No. 47,652
Brian K. Buchheit, Registration No. 52,667
AKERMAN SENTERFITT
Customer No. 40987
Post Office Box 3188
West Palm Beach, FL 33402-3188
Telephone: (561) 653-5000

Certificate Under 37 CFR 1.8(c)
I hereby certify that this correspondence is being transmitted via U.S.P.S. Express Mail to MAIL STOP
AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

Date

14 Sep 2001

Brian K. Buchheit, Esquire

Reg. No. 52,667

(PTM0394.1)

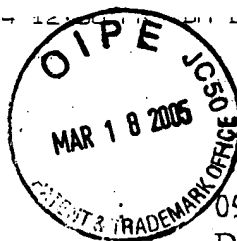
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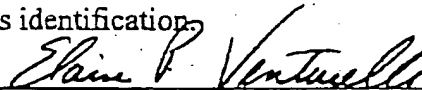


Dwayne Dames

Date: 8/17/04

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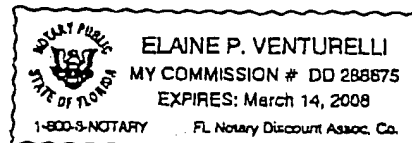
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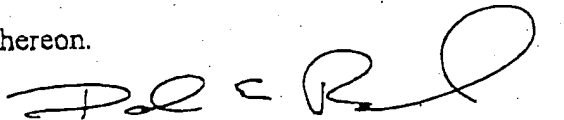
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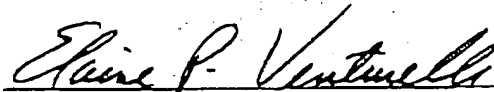


David E. Reich

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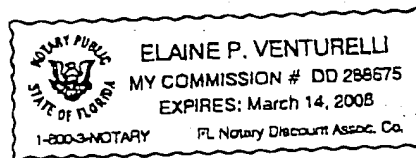
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Last Modified By: David Reich Last Modified On: 11/29/99 02:43:44 PM

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Functional Area	Speech Development & Customization (O. Osborne)
Attorney/Patent Professional	Richard Tomlin/Boca Raton/IBM
IDT Team	Harvey Ruback/West Palm Beach/IBM
Submitted Date	11/22/99 03:48:03 PM
Owning Division	SWG Add Change
PVT Score	To calculate a PVT score, use the 'Calculate PVT' button.
Lab	
Technology Code	
Incentive Program	

Inventors with Lotus Notes IDs

Inventors: David Reich/West Palm Beach/IBM, Dwayne Dames/West Palm Beach/IBM, Kevin Tan/West Palm Beach/IBM, Fang Wang/West Palm Beach/IBM, Lenora Wright/West Palm Beach/IBM

Inventor Name > denotes primary contact	Inventor Serial	Div/Dept	Manager Serial	Manager Name
Reich, David E.	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Dames, Dwayne	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Tan, Ji Whee (Kevin)	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Wang, Fang	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Wright, Lenora E.	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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The problem in doing this is that web pages are all different, and data is not in any standard place in the HTML file. Transcoding keeps the data within tags, and requires the transcoder to transcode the context of the data to different user interfaces which is an inferior solution or ultimately forces the developer to migrate one user interface to another. This solution addresses the issue of parsing the pages from many varied sources to grab just the data, and then put well designed voice (or other) markup around it.

The advantages are:

- 1) Presentation markup geared directly toward the presentation medium rather than translated/transcoded tags.
- 2) As new HTML page layouts are learned, they are just added to the page templates described below.
- 3) The field extraction code is generic to pull specific data from their places based on table lookup rather than the forcing program logic to know where the fields are.

2. How does the invention solve the problem or achieve an advantage, (a description of "the invention", including figures inline as appropriate)?

The solution uses a table lookup mechanism that has contained within it, the structure of the web pages being referenced. For example, the Yahoo movie pages have the theater name at byte offset 57 for 35 bytes, and repeating fields for the movies playing at by 235 for 600 bytes (for example). So rather than parsing the page to "flip" one set of tags to another and keep the data in place as in a cobbled together user interface, there would be a table lookup for the page layout (like a Lotus NOTES template) and the data can be extracted and placed into Voice (or other) oriented markup specific to the application.

The advantage is that it is adaptable to any web page anywhere and if the format of pages change, it is a trivial matter to update the templates.

These templates can potentially be sold or licensed, and another large advantage (to ubiquitous access to web-oriented data) is the ability to use public sources of data without having to recreate or redesign backend data source interfaces.

3. If the same advantage or problem has been identified by others (inside/outside IBM), how have those others solved it and does your solution differ and why is it better?

The advantages are described above. Transcoding creates poor presentation because of the difference of the interface orientation of the different mediums (i.e. text/visual vs speech/audio)

4. If the invention is implemented in a product or prototype, include technical details, purpose, disclosure details to others and the date of that implementation.

The programming is underway for a prototype for this for internal demonstration only, and even for external (to IBM) demonstration, the details of the solution do not have to be divulged.

*Critical Questions (Questions 1 - 7 must be answered)

*Question 1

On what date was the invention workable? 11/22/99 Please format the date as MM/DD/YYYY
(Workable means i.e. when you know that your design will solve the problem)

*Question 2

Is there any planned or actual publication or disclosure of your invention to anyone outside IBM? ☐ Yes ☒ No

If yes, Enter the name of each publication or patent and the date published below.

Publication/Patent:

Date Published or Issued:

Are you aware of any publications, products or patents that relate to this invention? ☐ Yes ☒ No

If yes, Enter the name of each publication or patent and the date published below.

Publication/Patent:

Date Published or Issued:

*Question 3

Has the subject matter of the invention or a product incorporating the invention been sold, used internally in manufacturing, announced for sale, or included in a proposal? ☒ Yes ☐ No

Is a sale, use in manufacturing, product announcement, or proposal planned? ☐ Yes ☒ No

If Yes, identify the product if known and indicate the date or planned date of sale, announcements, or proposal and to whom the sale, announcement or proposal has been or will be made.

Product: VoiceXML (e-Voice) pilot program

Version/Release: N/A

Code Name: N/A

Date: N/A

To Whom: N/A

If more than one, use cut and paste and append as necessary in the field provided.

*Question 4

Was the subject matter of your invention or a product incorporating your invention used in public, e.g., outside IBM or in the presence of non-IBMers? ☐ Yes ☒ No

If yes, give a date. Please format the date as MM/DD/YYYY

*Question 5

Have you ever discussed your invention with others not employed at IBM? ☐ Yes ☒ No

If yes, identify individuals and date discussed. Fill in the text area with the following information, the names of the individuals, the employer, date discussed, under CDA, and CDA #.

*Question 6

Was the invention, in any way, started or developed under a government contract or project? ☐ Yes ☒ No

If Yes, enter the contract number

*Question 7

Was the invention made in the course of any alliance, joint development or other contract activities? ☐ Yes ☒ No ☐ Not Sure

If Yes, enter the following :Name of Alliance, Contractor or Joint Developer

Contract ID number

Relationship contact name

Relationship contact E-mail

Relationship contact phone

Question 8

Have you submitted, or are you aware of, any related disclosure submission?

☐ Yes☒ No

If Yes, please provide the title and docket or disclosure number below:

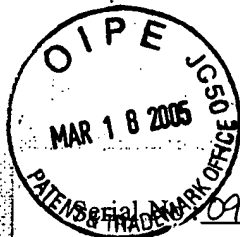
Question 9

What type of companies do you expect to compete with inventions of this type? Check all that apply.

☐ Manufacturers of enterprise servers☐ Manufacturers of entry servers☐ Manufacturers of workstations☐ Manufacturers of PC's☐ Non-computer manufacturers☒ Developers of operating systems☒ Developers of networking software☒ Developers of application software☒ Integrated solution providers☒ Service providers☐ Other (Please specify below)

Patent Value Tool (Optional - this may be used by the inventor and attorney to assist with the eval
Post Disclosure Text & Drawings

(Form Revised 12/17/97)



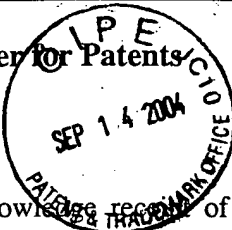
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- ☐ Sheets of Drawing
- ☒ Declaration Under § 1.131 w/ Attachment
- ☐ Fee (\$) (2)
- ☒ Amendment/Response
- ☐ Request for Extension of Time
- ☐ Assignment & Recordation Coversheet
- ☐ Copy of Notice of Missing Parts
- ☒ Transmittal Letter
- ☐ PTOL-85 Fee Transmittal
- ☐ IDS, PTO/SB008A&B, Refs.
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- ☐ Under Seal

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